

FCC Appendix RF Test Data

FCC ID : 2AAMS-X15-S

Company: : SHENZHEN NST INDUSTRY AND TRADE CO.,LTD

EUT : laptop

Model Number : X15-S

Report No. : CTA25041000804

Reviewed By : Eric Wang

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.800	5170.120	5192.920	---	---
		5220	22.080	5207.520	5229.600	---	---
		5240	19.960	5229.880	5249.840	---	---
		5745	22.120	5733.560	5755.680	---	---
		5785	22.040	5773.040	5795.080	---	---
		5825	24.760	5813.120	5837.880	---	---
11N20SISO	Ant1	5180	25.440	5168.000	5193.440	---	---
		5220	26.200	5207.400	5233.600	---	---
		5240	25.200	5227.360	5252.560	---	---
		5745	24.560	5733.000	5757.560	---	---
		5785	24.680	5772.880	5797.560	---	---
		5825	24.920	5812.840	5837.760	---	---
11N40SISO	Ant1	5190	43.360	5169.040	5212.400	---	---
		5230	46.160	5208.640	5254.800	---	---
		5755	54.160	5728.040	5782.200	---	---
		5795	43.920	5773.880	5817.800	---	---
11AC20SISO	Ant1	5180	28.480	5167.960	5196.440	---	---
		5220	24.760	5205.080	5229.840	---	---
		5240	21.720	5228.440	5250.160	---	---
		5745	22.840	5733.240	5756.080	---	---
		5785	21.520	5773.640	5795.160	---	---
		5825	21.440	5813.680	5835.120	---	---
11AC40SISO	Ant1	5190	43.680	5170.160	5213.840	---	---
		5230	40.800	5210.240	5251.040	---	---
		5755	52.320	5731.640	5783.960	---	---
		5795	51.760	5772.120	5823.880	---	---
11AC80SISO	Ant1	5210	86.720	5167.600	5254.320	---	---
		5775	85.600	5733.240	5818.840	---	---

Test Graphs

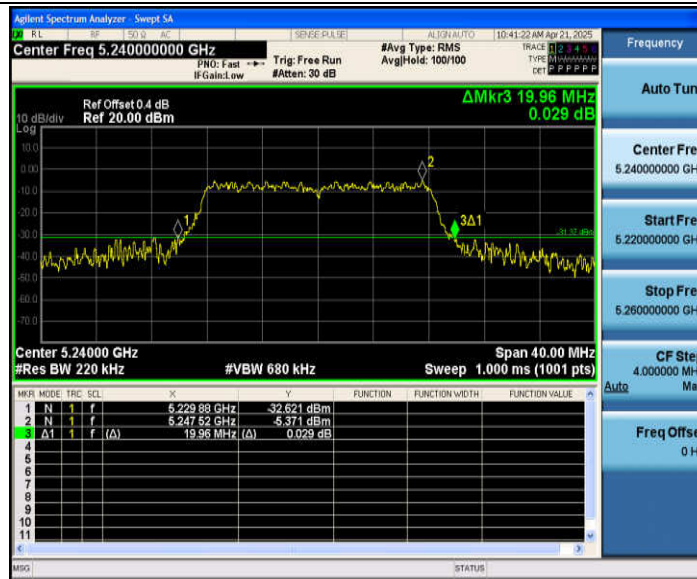
11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



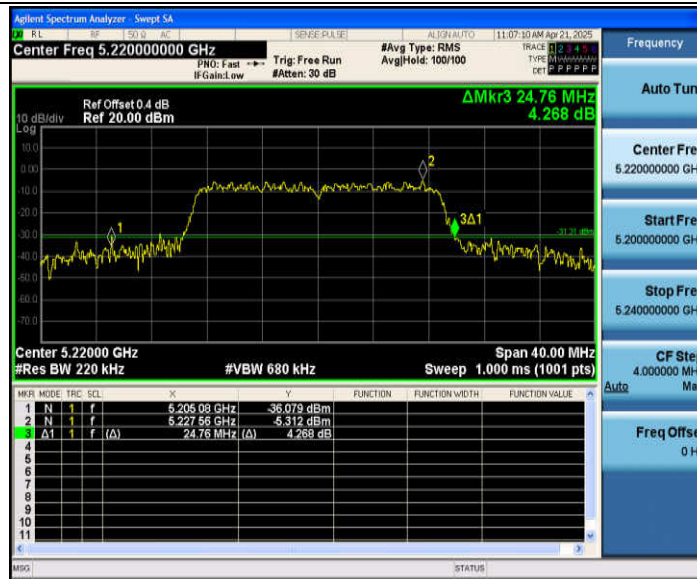
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



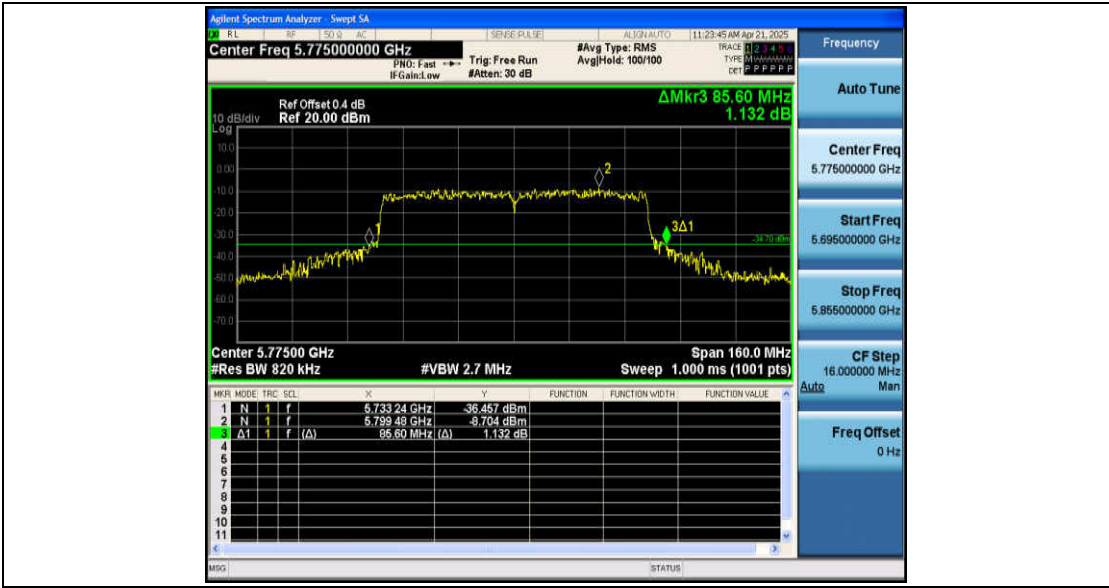
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



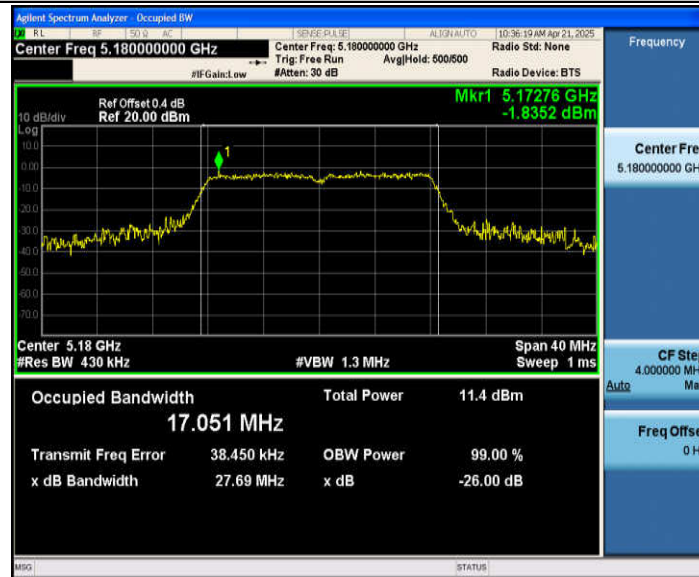
Appendix A2: Occupied channel bandwidth

Test Result

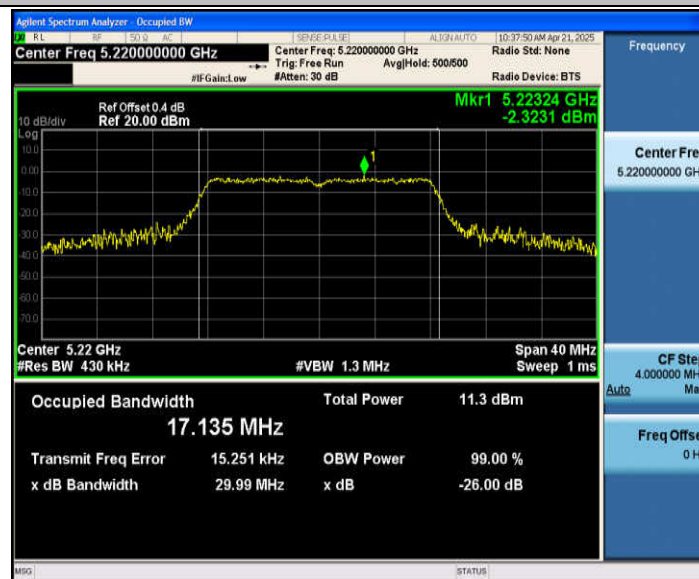
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.051	5171.5130	5188.5640	---	---
		5220	17.135	5211.4478	5228.5828	---	---
		5240	17.136	5231.4378	5248.5738	---	---
		5745	17.104	5736.4366	5753.5406	---	---
		5785	17.045	5776.4907	5793.5357	---	---
		5825	17.050	5816.4835	5833.5335	---	---
11N20SISO	Ant1	5180	18.252	5170.9707	5189.2227	---	---
		5220	18.172	5210.9886	5229.1606	---	---
		5240	18.158	5230.9630	5249.1210	---	---
		5745	18.106	5735.9480	5754.0540	---	---
		5785	18.071	5775.9953	5794.0663	---	---
		5825	18.122	5815.9931	5834.1151	---	---
11N40SISO	Ant1	5190	36.482	5171.7909	5208.2729	---	---
		5230	36.389	5211.8703	5248.2593	---	---
		5755	36.919	5736.6430	5773.5620	---	---
		5795	36.900	5776.6931	5813.5931	---	---
11AC20SISO	Ant1	5180	17.911	5171.0982	5189.0092	---	---
		5220	17.922	5211.0612	5228.9832	---	---
		5240	17.886	5231.0814	5248.9674	---	---
		5745	17.950	5736.0209	5753.9709	---	---
		5785	17.888	5776.0516	5793.9396	---	---
		5825	17.845	5816.1241	5833.9691	---	---
11AC40SISO	Ant1	5190	36.443	5171.8129	5208.2559	---	---
		5230	36.431	5211.8830	5248.3140	---	---
		5755	36.827	5736.6810	5773.5080	---	---
		5795	36.787	5776.7560	5813.5430	---	---
11AC80SISO	Ant1	5210	75.943	5172.1579	5248.1009	---	---
		5775	76.025	5737.2036	5813.2286	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



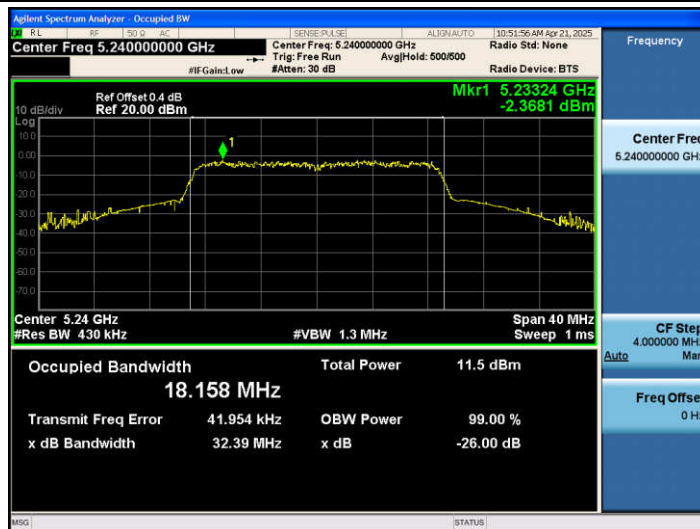
11N20SISO_Ant1_5180



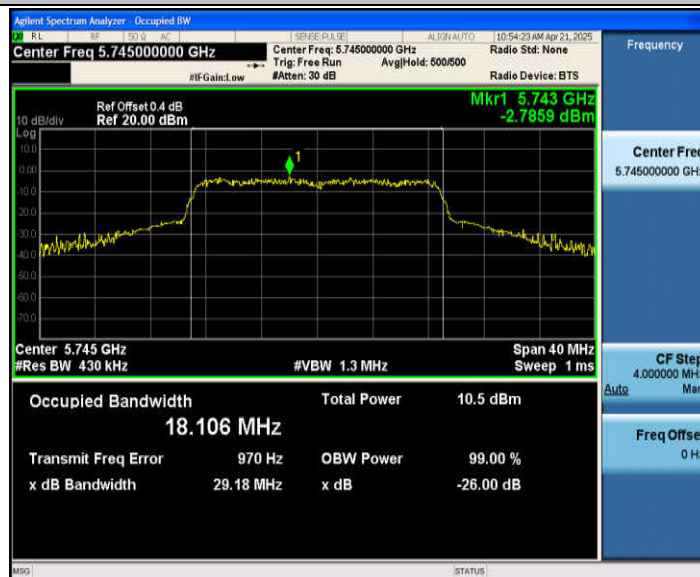
11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825

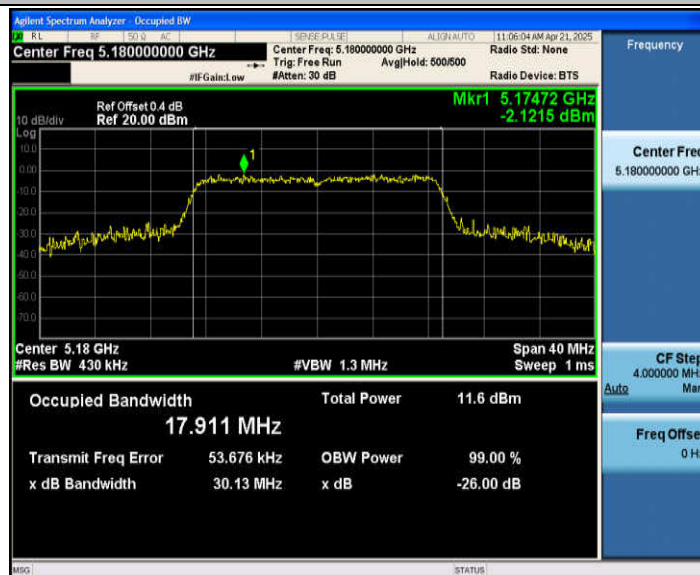


11N40SISO_Ant1_5190





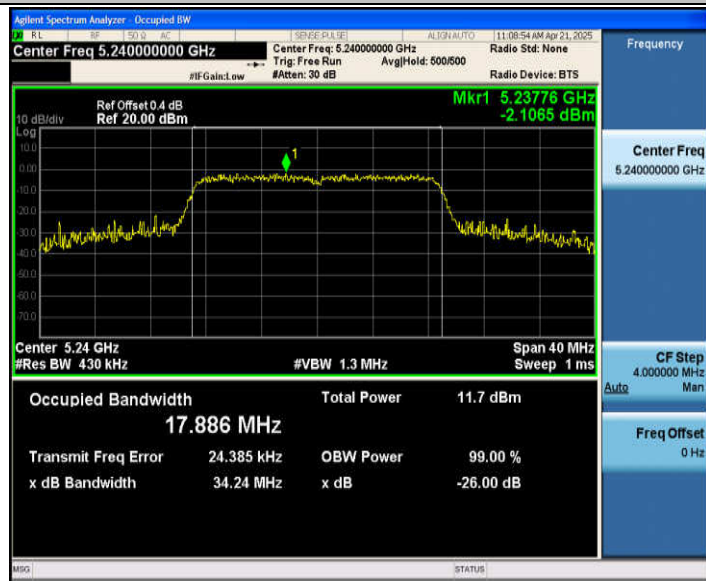
11AC20SISO_Ant1_5180



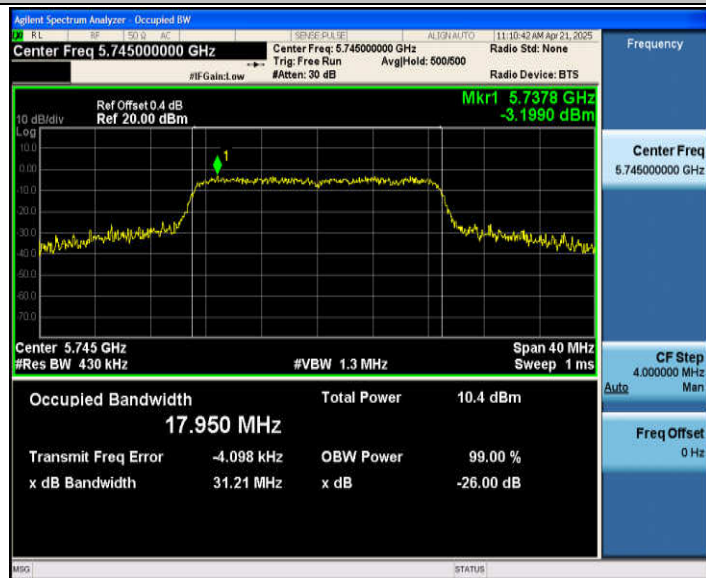
11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240



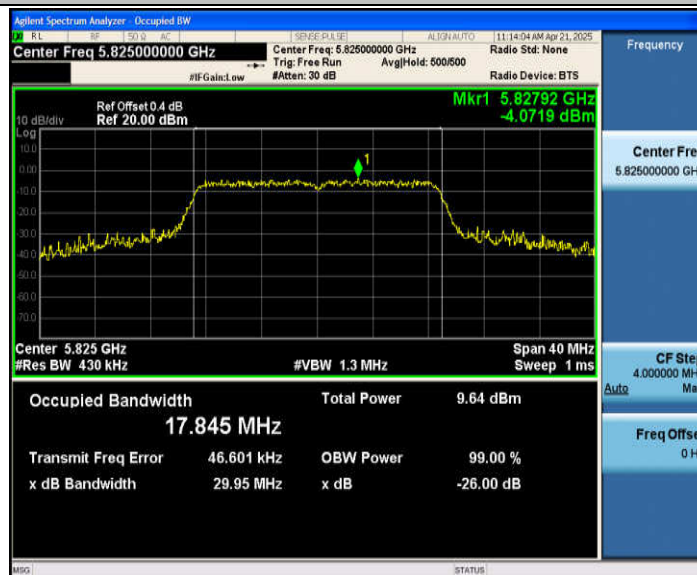
11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



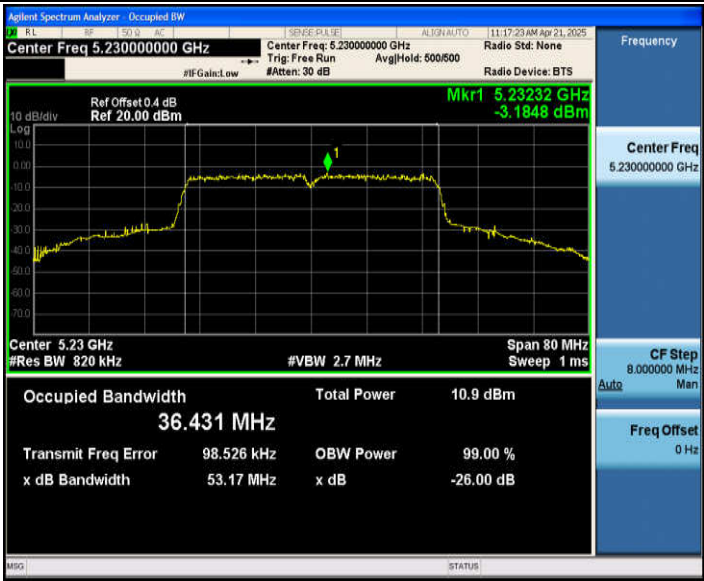
11AC20SISO_Ant1_5825



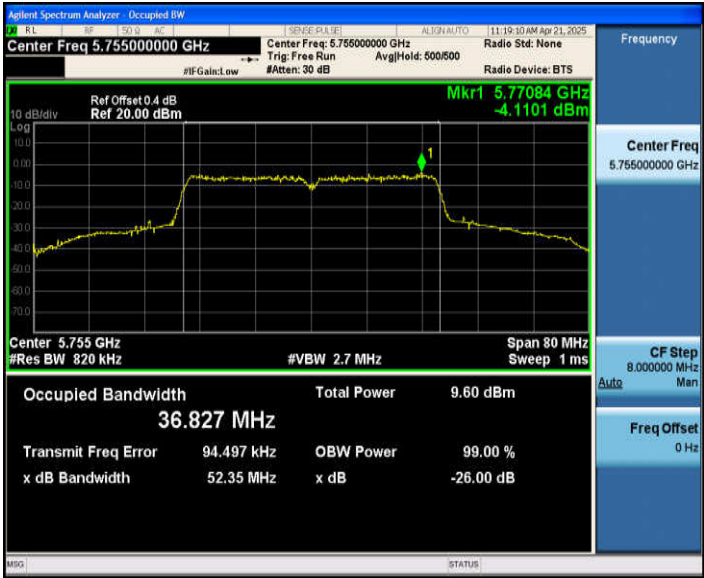
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



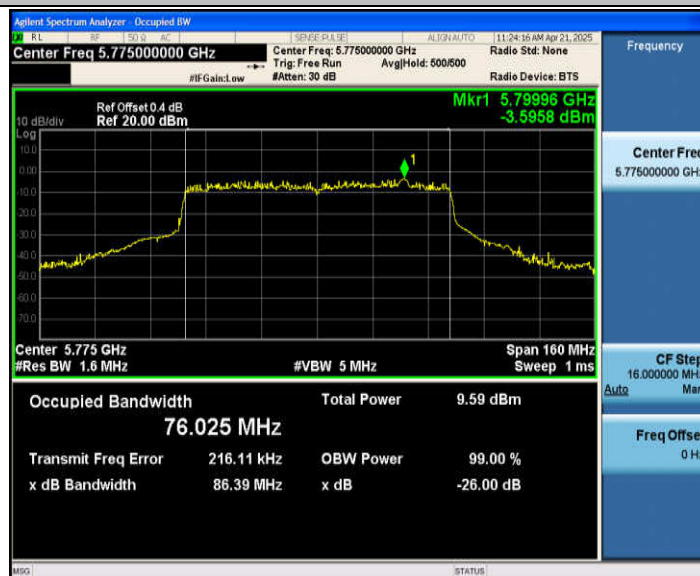
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775

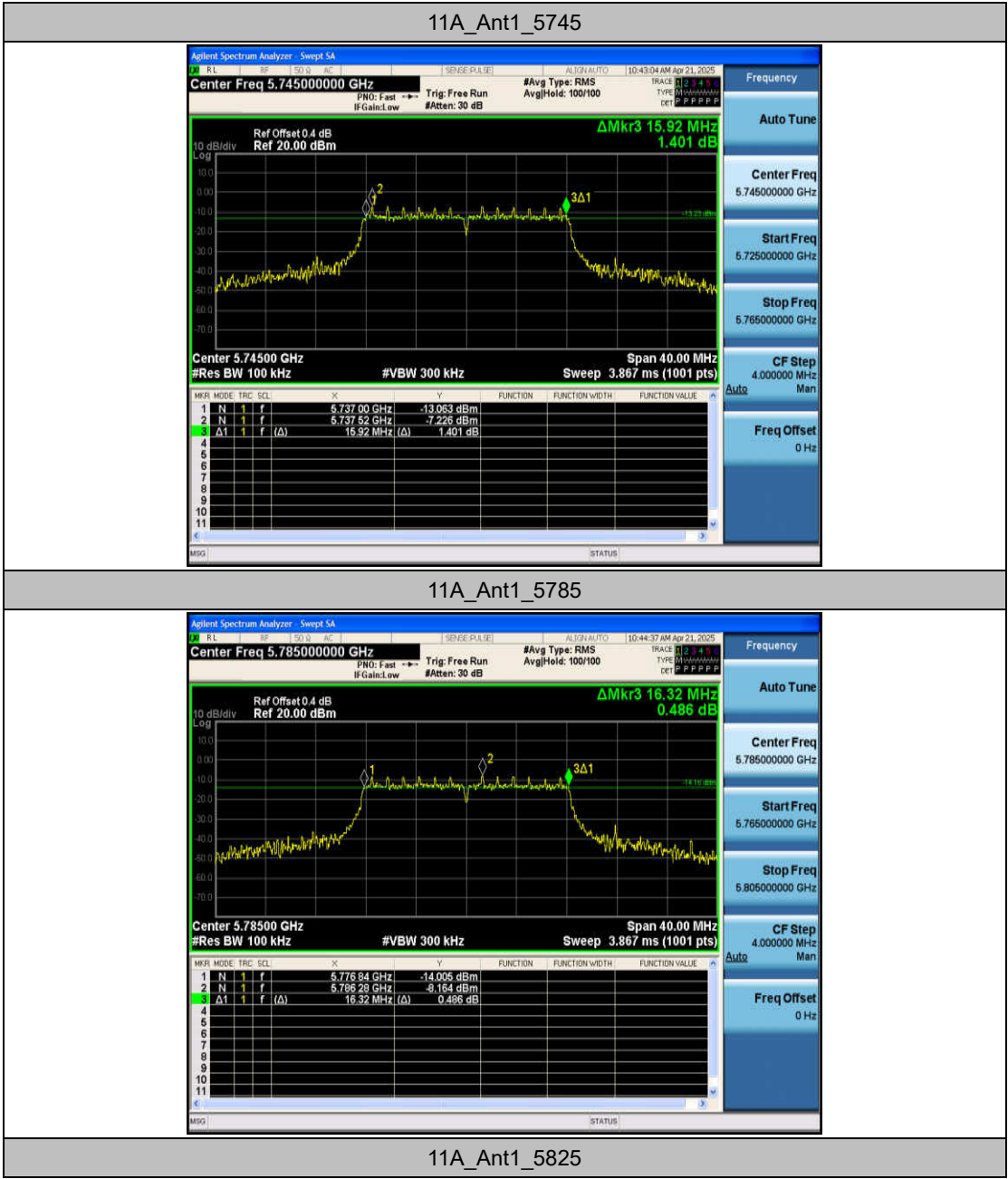


Appendix A3: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.920	5737.000	5752.920	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.320	5816.840	5833.160	0.5	PASS
11N20SISO	Ant1	5745	17.080	5736.520	5753.600	0.5	PASS
		5785	17.120	5776.400	5793.520	0.5	PASS
		5825	17.040	5816.480	5833.520	0.5	PASS
11N40SISO	Ant1	5755	35.920	5737.160	5773.080	0.5	PASS
		5795	35.680	5777.240	5812.920	0.5	PASS
11AC20SISO	Ant1	5745	16.840	5736.400	5753.240	0.5	PASS
		5785	16.480	5776.760	5793.240	0.5	PASS
		5825	17.000	5816.480	5833.480	0.5	PASS
11AC40SISO	Ant1	5755	35.680	5737.080	5772.760	0.5	PASS
		5795	35.760	5777.240	5813.000	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs B4





11N20SISO_Ant1_5745



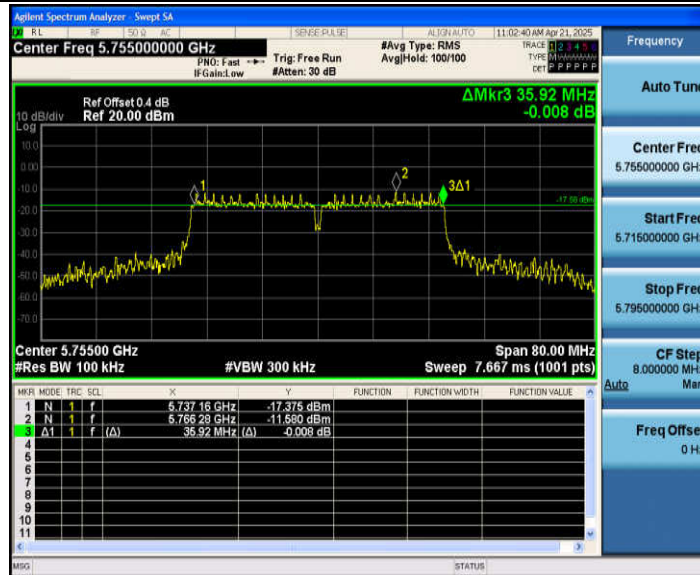
11N20SISO_Ant1_5785



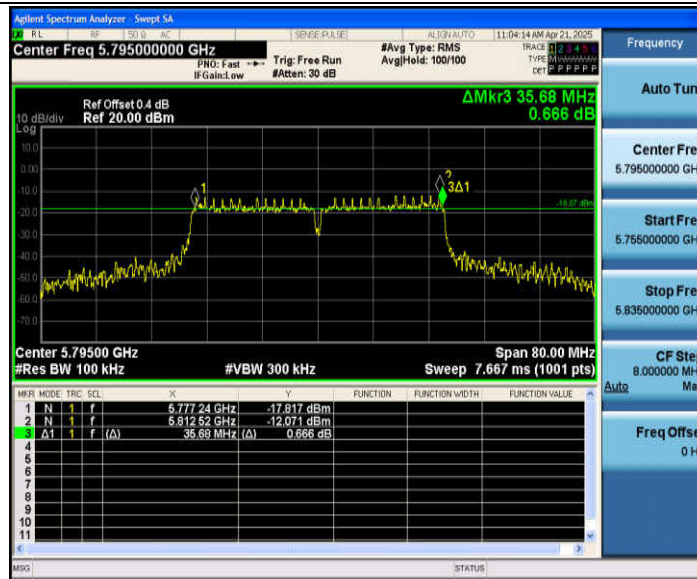
11N20SISO_Ant1_5825



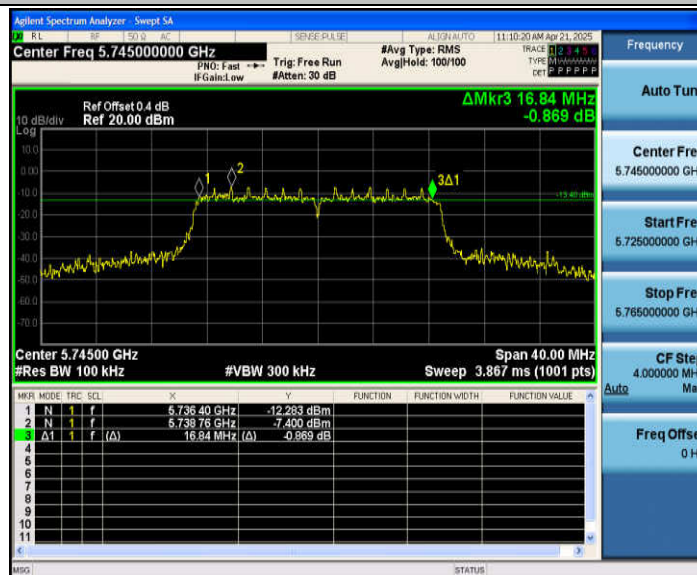
11N40SISO_Ant1_5755



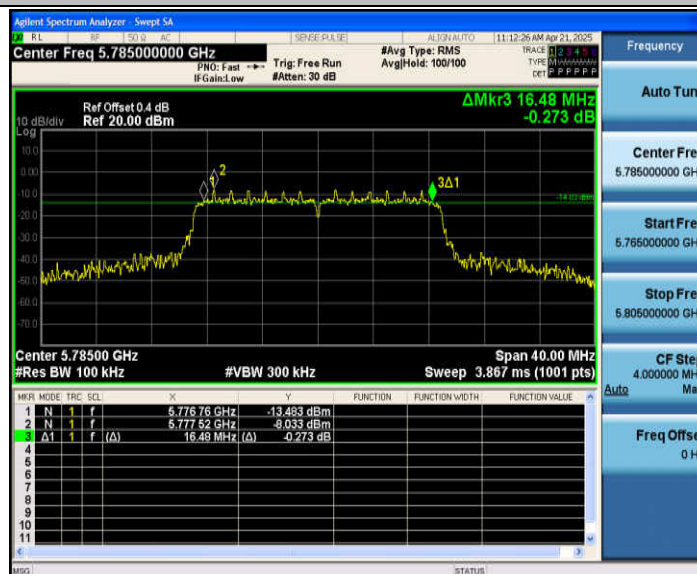
11N40SISO_Ant1_5795



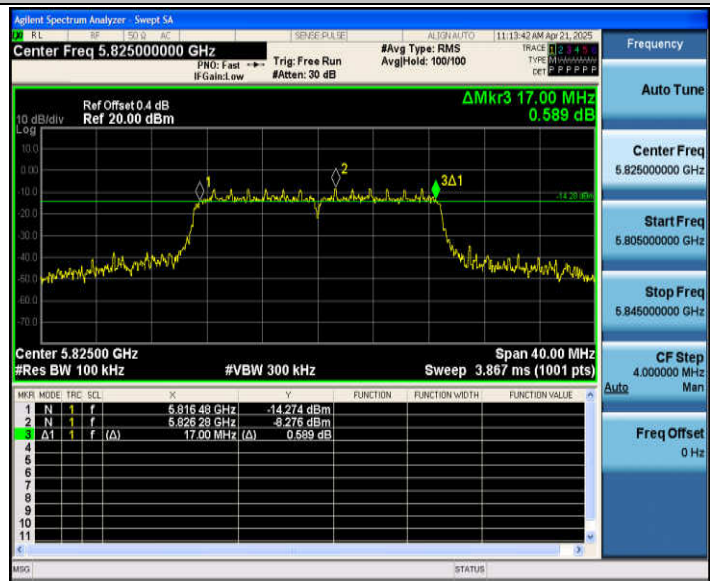
11AC20SISO_Ant1_5745



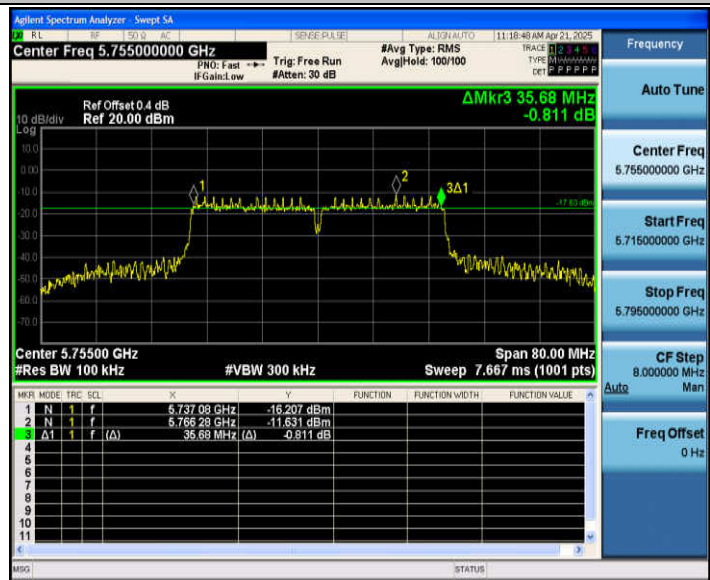
11AC20SISO_Ant1_5785



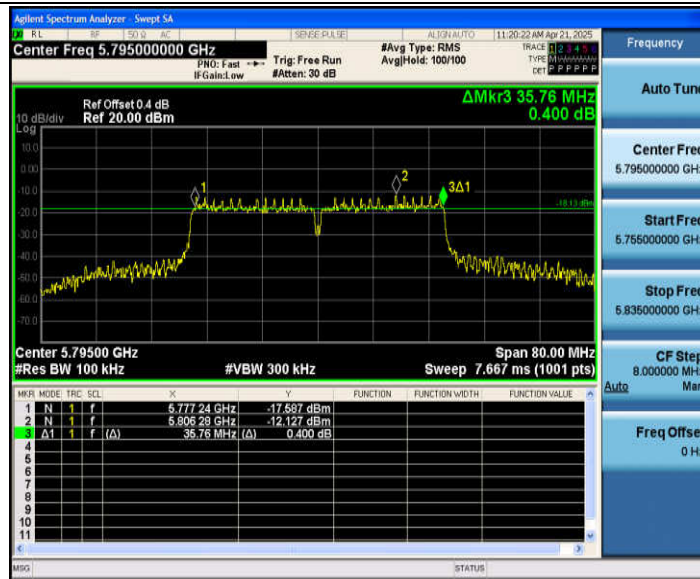
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80ISO_Ant1_5775

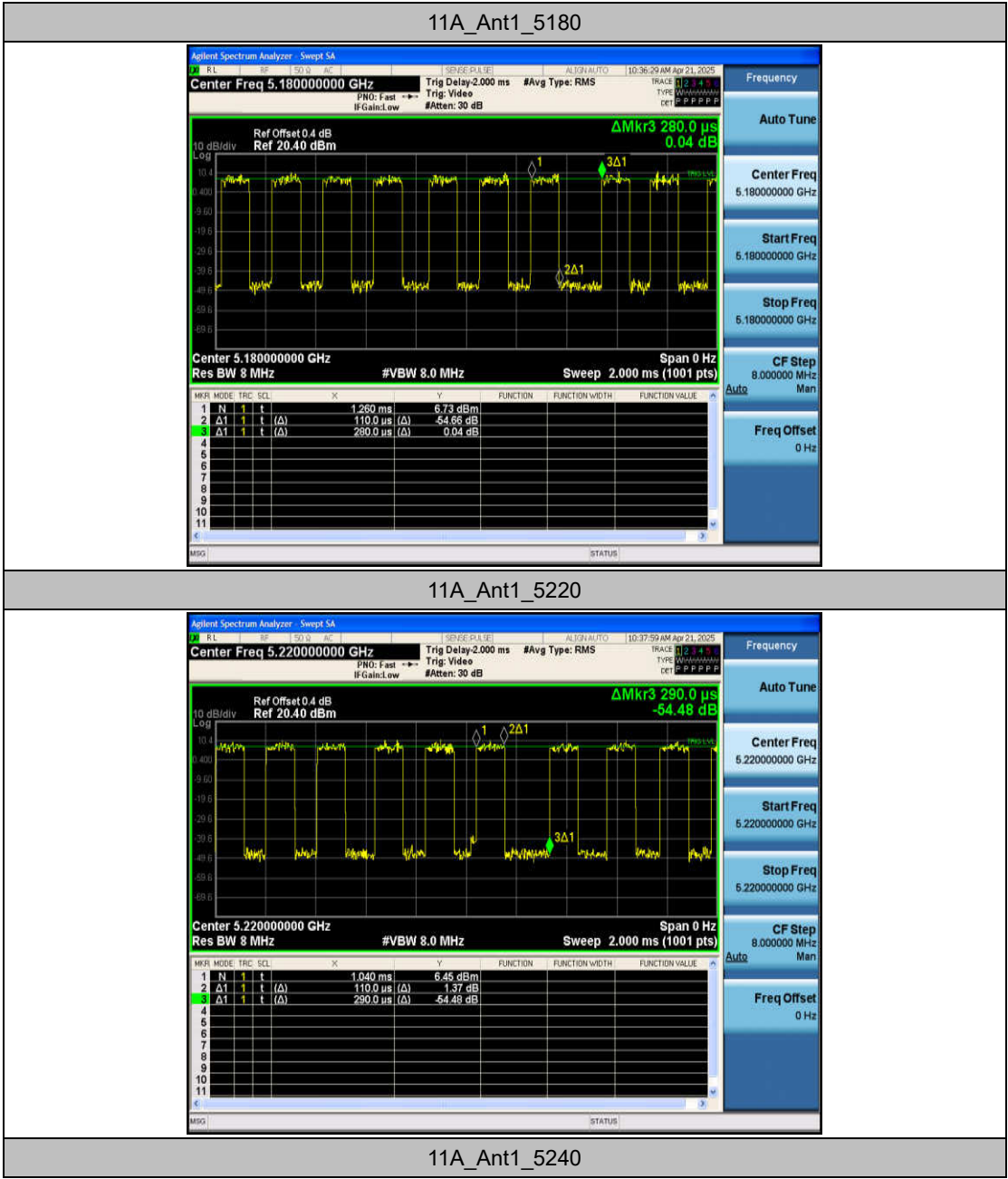


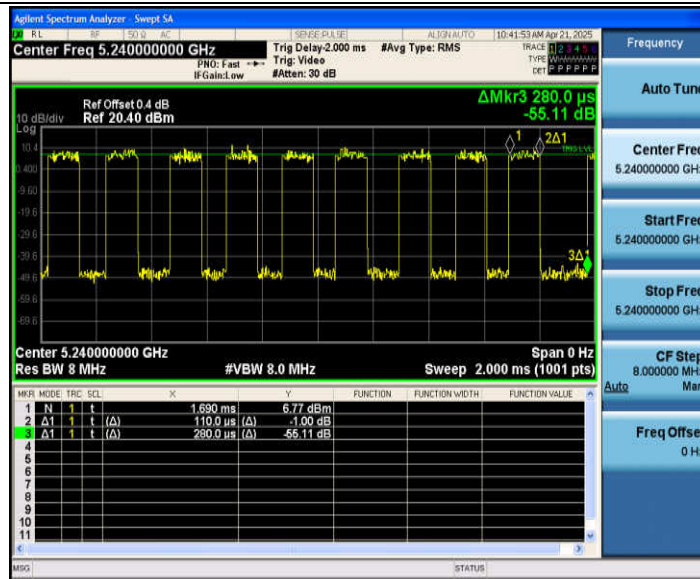
Appendix B: Duty Cycle

Test Result

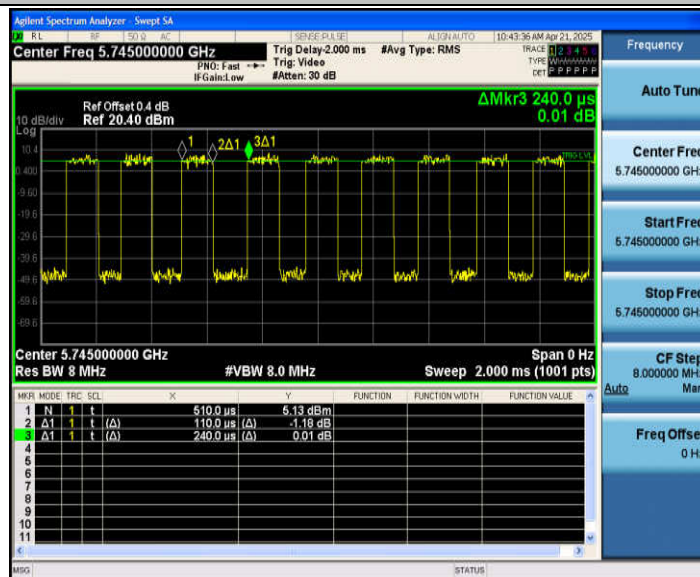
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty factor(dB)	Limit	Verdict
11A	Ant1	5180	0.11	0.28	39.29	4.06	---	---
		5220	0.11	0.29	37.93	4.21	---	---
		5240	0.11	0.28	39.29	4.06	---	---
		5745	0.11	0.24	45.83	3.39	---	---
		5785	0.11	0.33	33.33	4.77	---	---
		5825	0.11	0.27	40.74	3.90	---	---
11N20SISO	Ant1	5180	0.11	0.30	36.67	4.36	---	---
		5220	0.11	0.32	34.38	4.64	---	---
		5240	0.11	0.29	37.93	4.21	---	---
		5745	0.11	0.24	45.83	3.39	---	---
		5785	0.11	0.31	35.48	4.50	---	---
		5825	0.11	0.28	39.29	4.06	---	---
11N40SISO	Ant1	5190	0.07	0.24	29.17	5.35	---	---
		5230	0.07	0.26	26.92	5.70	---	---
		5755	0.07	0.28	25.00	6.02	---	---
		5795	0.07	0.22	31.82	4.97	---	---
11AC20SISO	Ant1	5180	0.11	0.29	37.93	4.21	---	---
		5220	0.12	0.24	50.00	3.01	---	---
		5240	0.12	0.29	41.38	3.83	---	---
		5745	0.12	0.33	36.36	4.39	---	---
		5785	0.12	0.29	41.38	3.83	---	---
		5825	0.12	0.34	35.29	4.52	---	---
11AC40SISO	Ant1	5190	0.08	0.25	32.00	4.95	---	---
		5230	0.08	0.30	26.67	5.74	---	---
		5755	0.08	0.29	27.59	5.59	---	---
		5795	0.08	0.25	32.00	4.95	---	---
11AC80SISO	Ant1	5210	0.06	0.24	25.00	6.02	---	---
		5775	0.06	0.25	24.00	6.20	---	---

Test Graphs

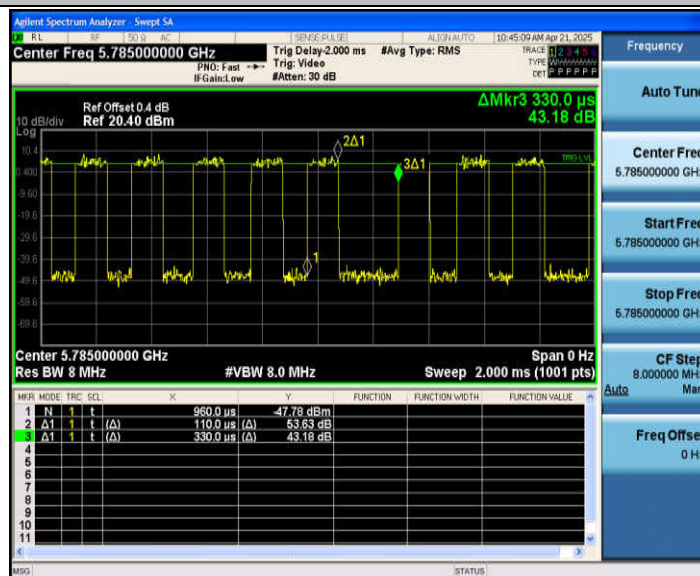




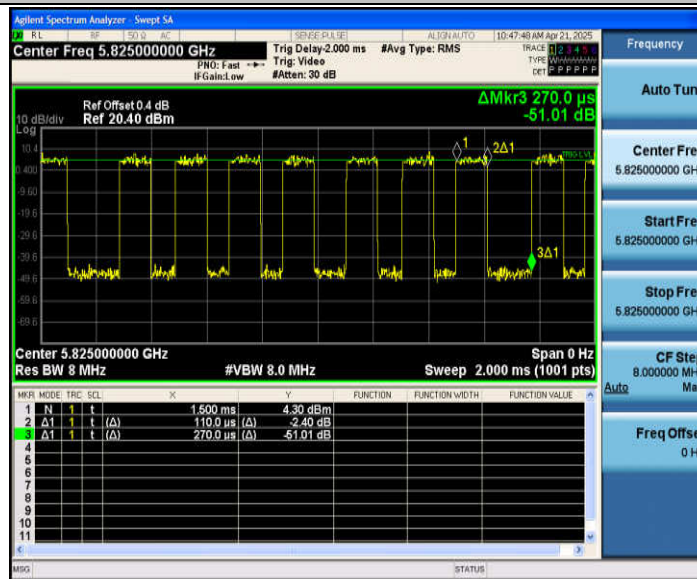
11A_Ant1_5745



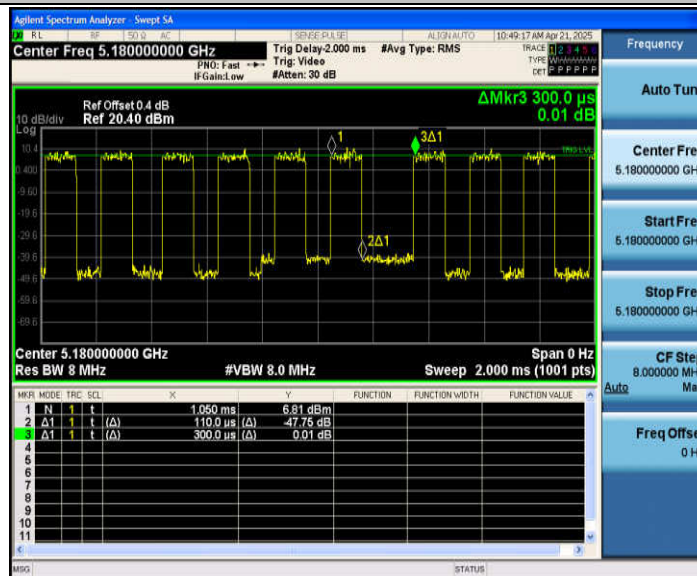
11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5220